

BUFFERED MEMORY MODULE WITH IMPLICIT TO EXPLICIT MEMORY COMMAND EXPANSION

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ABSTRACT OF THE DISCLOSURE

Method and apparatus for use with buffered memory modules are included among the embodiments. In exemplary systems, the memory module has a buffer that receives memory commands and data, and then presents those commands and data to physical memory devices through a separate interface. The buffer has the capability to accept an implicit memory
10 command, i.e., a command that does not contain a fully-formed memory device command, but instead instructs the memory module buffer to form one or more fully-formed memory device commands to perform memory operations. Substantial memory channel bandwidth can be saved, for instance, with a command that instructs a memory module to clear a region of memory or copy a region to a second area in memory. Other embodiments are described
15 and claimed.